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data from INPADOC
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NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 8 MAR 22 KOREAPAT now updated monthly; patent information enhanced
NEWS 9 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 10 MAR 22 PATDPASPC - New patent database available
NEWS 11 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
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=> s cgmp (5a)phosphodiesterase
L1 11288 CGMP (5A) PHOSPHODIESTERASE

=> s l1 (5a)(bovine or calf)
L2 397 L1 (5A) (BOVINE OR CALF)

=> s l1 (5a) adrenal
L3 31 L1 (5A) ADRENAL

=> s l2 (5a) adrenal
L4 17 L2 (5A) ADRENAL

=> dup rem l4
PROCESSING COMPLETED FOR L4
L5 5 DUP REM L4 (12 DUPLICATES REMOVED)

=> d 1-5

L5	ANSWER 1 OF 5	MEDLINE on STN	DUPLICATE 1
AN	86216224	MEDLINE	
DN	PubMed ID: 3011099		
TI	Hydrolysis of cyclic nucleotides by a purified cGMP-stimulated phosphodiesterase: structural requirements for hydrolysis.		
AU	Braumann T; Erneux C; Petridis G; Stohrer W D; Jastorff B		
SO	Biochimica et biophysica acta, (1986 Jun 5) 871 (2) 199-206. Journal code: 0217513. ISSN: 0006-3002.		
CY	Netherlands		
DT	Journal; Article; (JOURNAL ARTICLE)		
LA	English		

FS Priority Journals
EM 198607
ED Entered STN: 19900321
Last Updated on STN: 19970203
Entered Medline: 19860709

L5 ANSWER 2 OF 5 MEDLINE on STN DUPLICATE 2
AN 86060262 MEDLINE
DN PubMed ID: 2999203
TI The binding of cyclic nucleotide analogs to a purified cyclic
GMP-stimulated phosphodiesterase from bovine adrenal tissue.
AU Erneux C; Miot F; Van Haastert P J; Jastorff B
SO Journal of cyclic nucleotide and protein phosphorylation research, (1985)
10 (5) 463-72.
Journal code: 8309334. ISSN: 0746-3898.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198601
ED Entered STN: 19900321
Last Updated on STN: 19970203
Entered Medline: 19860103

L5 ANSWER 3 OF 5 MEDLINE on STN DUPLICATE 3
AN 85203894 MEDLINE
DN PubMed ID: 2581780
TI Specificity of cGMP binding to a purified ***cGMP*** -stimulated
phosphodiesterase from ***bovine*** ***adrenal*** tissue.
AU Miot F; Van Haastert P J; Erneux C
SO European journal of biochemistry / FEBS, (1985 May 15) 149 (1) 59-65.
Journal code: 0107600. ISSN: 0014-2956.
CY GERMANY, WEST: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198507
ED Entered STN: 19900320
Last Updated on STN: 19900320
Entered Medline: 19850717

L5 ANSWER 4 OF 5 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on
STN
AN 84:418187 SCISEARCH
GA The Genuine Article (R) Number: TC918
TI PURIFICATION AND ***CGMP*** BINDING OF A ***CGMP*** -STIMULATED
PHOSPHODIESTERASE FROM ***BOVINE*** ***ADRENAL*** -TISSUE
AU MIOT F (Reprint); VANHAASTER P J M; ERNEUX C
CS FREE UNIV BRUSSELS, SCH MED, INST INTERDISCIPLINARY RES, B-1070 BRUSSELS,
BELGIUM; UNIV LEIDEN, BIOL LAB, CELL BIOL & MORPHOGENESIS UNIT, 2311 GP
LEIDEN, NETHERLANDS
CYA BELGIUM; NETHERLANDS
SO ARCHIVES INTERNATIONALES DE PHYSIOLOGIE ET DE BIOCHIMIE, (1984) Vol. 92,
No. 1, pp. B44-B45.
DT Conference; Journal
FS LIFE
LA ENGLISH
REC Reference Count: 2

L5 ANSWER 5 OF 5 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on
STN
AN 82:129567 SCISEARCH
GA The Genuine Article (R) Number: NG282
TI PARTIAL-PURIFICATION AND CHARACTERIZATION OF ***CGMP*** -STIMULATED
NUCLEOTIDE ***PHOSPHODIESTERASE*** FROM ***BOVINE***
ADRENAL -MEDULLA
AU NEIDIG M (Reprint); COFFEE C
CS UNIV PITTSBURGH, SCH MED, DEPT BIOCHEM, PITTSBURGH, PA, 15261
CYA USA
SO FEDERATION PROCEEDINGS, (1982) Vol. 41, No. 3, pp. 760.
DT Conference; Journal

FS LIFE
LA ENGLISH
REC No References

=> s 12 and brain
L6 44 L2 AND BRAIN

=> dup rem 16
PROCESSING COMPLETED FOR L6
L7 13 DUP REM L6 (31 DUPLICATES REMOVED)

=> s 17 not 15
L8 13 L7 NOT L5

=> d 1-13

L8 ANSWER 1 OF 13 MEDLINE on STN
AN 92065414 MEDLINE
DN PubMed ID: 1659635
TI Comparison of putative cGMP-binding regions in ***bovine***
brain and cardiac ***cGMP*** -stimulated
phosphodiesterases
AU Tanaka T; Hockman S; Moos M Jr; Taira M; Meacci E; Murashima S;
Manganiello V C
CS Laboratory of Cellular Metabolism, NHLBI, NIH.
SO Second messengers and phosphoproteins, (1991) 13 (2-3) 87-98.
Journal code: 9002049. ISSN: 0895-7479.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199201
ED Entered STN: 19920124
Last Updated on STN: 19920124
Entered Medline: 19920102

L8 ANSWER 2 OF 13 MEDLINE on STN
AN 91354336 MEDLINE
DN PubMed ID: 1652962
TI Inhibition of ***bovine*** ***brain*** calmodulin-dependent
cGMP ***phosphodiesterase*** by peptide and non-peptide
angiotensin receptor ligands.
AU Sharma R K; Smith J R; Moore G J
CS Department of Medical Biochemistry, University of Calgary, Alberta,
Canada.
SO Biochemical and biophysical research communications, (1991 Aug 30) 179 (1)
85-9.
Journal code: 0372516. ISSN: 0006-291X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199110
ED Entered STN: 19911020
Last Updated on STN: 19970203
Entered Medline: 19911002

L8 ANSWER 3 OF 13 MEDLINE on STN
AN 90344764 MEDLINE
DN PubMed ID: 2166558
TI Characterization of particulate cyclic nucleotide phosphodiesterases from
bovine ***brain*** : purification of a distinct cGMP-stimulated
isoenzyme.
AU Murashima S; Tanaka T; Hockman S; Manganiello V
CS Laboratory of Cellular Metabolism, National Heart, Lung, and Blood
Institute, National Institutes of Health, Bethesda, Maryland 20892.
SO Biochemistry, (1990 Jun 5) 29 (22) 5285-92.
Journal code: 0370623. ISSN: 0006-2960.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)

LA English
 FS Priority Journals
 EM 199009
 ED Entered STN: 19901026
 Last Updated on STN: 20000303
 Entered Medline: 19900920

L8 ANSWER 4 OF 13 MEDLINE on STN
 AN 90253439 MEDLINE
 DN PubMed ID: 2561449
 TI A comparative kinetic study of ***bovine*** calmodulin-dependent cyclic nucleotide ***phosphodiesterase*** isozymes utilizing cAMP, ***cGMP*** and their 2'-O-anthraniloyl-, 2'-O-(N-methylanthraniloyl)- derivatives as substrates.
 AU Grewal J; Karuppiyah N; Mutus B
 CS Department of Chemistry and Biochemistry, University of Windsor, Ontario, Canada.
 SO Biochemistry international, (1989 Dec) 19 (6) 1287-95.
 Journal code: 8100311. ISSN: 0158-5231.
 CY Australia
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199006
 ED Entered STN: 19900720
 Last Updated on STN: 19970203
 Entered Medline: 19900618

L8 ANSWER 5 OF 13 MEDLINE on STN
 AN 87092242 MEDLINE
 DN PubMed ID: 3025833
 TI Identification of a conserved domain among cyclic nucleotide phosphodiesterases from diverse species.
 AU Charbonneau H; Beier N; Walsh K A; Beavo J A
 NC AM-21723 (NIADDK)
 GM-15731 (NIGMS)
 SO Proceedings of the National Academy of Sciences of the United States of America, (1986 Dec) 83 (24) 9308-12.
 Journal code: 7505876. ISSN: 0027-8424.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 198702
 ED Entered STN: 19900302
 Last Updated on STN: 19970203
 Entered Medline: 19870206

L8 ANSWER 6 OF 13 MEDLINE on STN
 AN 81043926 MEDLINE
 DN PubMed ID: 6253285
 TI Calcium-regulated phosphodiesterase in bovine parathyroid cells.
 AU Brown E M
 NC 1K04-AM-00627-01 (NIADDK)
 R01-AM-25910-01 (NIADDK)
 SO Endocrinology, (1980 Dec) 107 (6) 1998-2003.
 Journal code: 0375040. ISSN: 0013-7227.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Abridged Index Medicus Journals; Priority Journals
 EM 198101
 ED Entered STN: 19900316
 Last Updated on STN: 19970203
 Entered Medline: 19810129

L8 ANSWER 7 OF 13 MEDLINE on STN
 AN 79194010 MEDLINE
 DN PubMed ID: 221455
 TI Effects of spermine on activity and stability of calcium-dependent guanosine 3',5'-monophosphate phosphodiesterase.

AU Kincaid R L; Manganiello V C; Vaughan M
SO Journal of biological chemistry, (1979 Jun 25) 254 (12) 4970-3.
Journal code: 2985121R. ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 197908
ED Entered STN: 19900315
Last Updated on STN: 19970203
Entered Medline: 19790816

L8 ANSWER 8 OF 13 MEDLINE on STN
AN 78066887 MEDLINE
DN PubMed ID: 201632
TI Phosphodiesterase activator from rat kidney cortex.
AU Strewler G J; Manganiello V C; Vaughan M
SO Journal of biological chemistry, (1978 Jan 25) 253 (2) 390-4.
Journal code: 2985121R. ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 197802
ED Entered STN: 19900314
Last Updated on STN: 19970203
Entered Medline: 19780223

L8 ANSWER 9 OF 13 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on
STN
AN 87:272994 SCISEARCH
GA The Genuine Article (R) Number: H1787
TI SUBCELLULAR-LOCALIZATION OF THE ***CGMP*** -STIMULATED
CYCLIC-NUCLEOTIDE ***PHOSPHODIESTERASE*** (PDE) FROM ***BOVINE***
BRAIN
AU MURASHIMA S (Reprint); MANGANIELLO V C
CS NHLBI, BETHESDA, MD, 20892
CYA USA
SO FEDERATION PROCEEDINGS, (1987) Vol. 46, No. 6, pp. 2250.
DT Conference; Journal
FS LIFE
LA ENGLISH
REC No References

L8 ANSWER 10 OF 13 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN
AN 1985:332999 BIOSIS
DN PREV198580002991; BA80:2991
TI CHARACTERIZATION OF A CALCIUM CALMODULIN-STIMULATED CYCLIC GMP
PHOSPHODIESTERASE FROM BOVINE ***BRAIN***
AU SHENOLIKAR S [Reprint author]; THOMPSON W J; STRADA S J
CS DEP PHARMACOLOGY, UNIV S ALA COLLEGE MED, MOBILE, AL 36688, USA
SO Biochemistry, (1985) Vol. 24, No. 3, pp. 672-678.
CODEN: BICHAW. ISSN: 0006-2960.
DT Article
FS BA
LA ENGLISH

L8 ANSWER 11 OF 13 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN
AN 1980:219063 BIOSIS
DN PREV198070011559; BA70:11559
TI MODES OF ACTION OF HYPO XANTHINE INOSINE AND IMP ON CYCLIC NUCLEOTIDE
PHOSPHO DI ESTERASE FROM BOVINE ***BRAIN***
AU LIANG C-M [Reprint author]; LIU Y P; CHABNER B A
CS CLIN PHARMACOL BRANCH, DIV CANCER TREAT, NATL CANCER INST, BETHESDA, MD
20205, USA
SO Biochemical Pharmacology, (1980) Vol. 29, No. 3, pp. 277-282.
CODEN: BCPCA6. ISSN: 0006-2952.
DT Article
FS BA

LA ENGLISH

L8 ANSWER 12 OF 13 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.
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AN 80069084 EMBASE

DN 1980069084

TI Cyclic 3',5'-adenosine monophosphate phosphodiesterase (cAMP PDE) and
cyclic 3',5'-guanosine monophosphate ***phosphodiesterase*** (
cGMP PDE) in microvessels isolated from ***bovine*** cortex.

AU Stefanovich V.

CS Hoechst Akt. Gesellsch., Frankfurt am Main Werk Albert, 6200 Wiesbaden 12,
Germany

SO Neurochemical Research, (1979) Vol. 4, No. 6, pp. 681-687.
CODEN: NEREDZ

CY United States

DT Journal

FS 002 Physiology
029 Clinical Biochemistry

LA English

ED Entered STN: 911209
Last Updated on STN: 911209

L8 ANSWER 13 OF 13 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1985:484109 HCAPLUS

DN 103:84109

TI Role of thiol groups in the activation of cyclic nucleotide
phosphodiesterase by calmodulin

AU Galoyan, A. A.; Gurvits, B. Ya.; Sharova, N. P.

CS Inst. Biochem., Yerevan, USSR

SO Neirokhimiya (1985), 4(1), 56-60
CODEN: NERODV; ISSN: 1027-8133

DT Journal

LA Russian

=> dis his

(FILE 'HOME' ENTERED AT 15:10:31 ON 24 JUN 2005)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,
NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 15:11:14 ON 24 JUN 2005

L1 11288 S CGMP (5A) PHOSPHODIESTERASE

L2 397 S L1 (5A) (BOVINE OR CALF)

L3 31 S L1 (5A) ADRENAL

L4 17 S L2 (5A) ADRENAL

L5 5 DUP REM L4 (12 DUPLICATES REMOVED)

L6 44 S L2 AND BRAIN

L7 13 DUP REM L6 (31 DUPLICATES REMOVED)

L8 13 S L7 NOT L5

=> log h

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	ENTRY	SESSION
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<input type="checkbox"/>	L7	L6 not l5	17
<input type="checkbox"/>	L6	L4 and brain	39
<input type="checkbox"/>	L5	L4 and adrenal\$	22
<input type="checkbox"/>	L4	L3 with (bovine or calf)	61
<input type="checkbox"/>	L3	cgmp near5 phosphodiesterase	1397
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L2	6642040.pn.	1
		<i>DB=PGPB; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L1	20040126866	1

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☐ 1. Document ID: US 20040126866 A1

L5: Entry 1 of 22

File: PGPB

Jul 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040126866

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040126866 A1

TITLE: DNA encoding mammalian phosphodiesterases

PUBLICATION-DATE: July 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Beavo, Joseph A.	Seattle	WA	US	
Bentley, J. Kelley	Seattle	WA	US	
Charbonneau, Harry	W. Lafayette	IN	US	
Sonnenburg, William K.	Mountlake Terrace	WA	US	

US-CL-CURRENT: [435/199](#); [435/320.1](#), [435/325](#), [435/6](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	WWW	Draw. De
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☐ 2. Document ID: US 20030191152 A1

L5: Entry 2 of 22

File: PGPB

Oct 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030191152

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030191152 A1

TITLE: Use of halogenated heterocyclic compounds in the treatment of sexual dysfunction and cardiovascular disease

PUBLICATION-DATE: October 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cutler, Neal R.	Los Angeles	CA	US	

US-CL-CURRENT: [514/312](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 20030054992 A1

L5: Entry 3 of 22

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054992

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030054992 A1

TITLE: Cyclic GMP-binding, cyclic GMP-specific phosphodiesterase materials and methods

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Beavo, Joseph A.	Seattle	WA	US	
Corbin, Jackie D.	Nashville	TN	US	
Ferguson, Kenneth M.	Bothell	WA	US	
Francis, Sharron H.	Nashville	TN	US	
Kadlecek, Ann	Seattle	WA	US	
Loughney, Kate	Seattle	WA	US	
McAllister-Lucas, Linda M.	Nashville	TN	US	
Sonnenburg, William K.	Mountlake Terrace	WA	US	
Thomas, Melissa K.	Boston	MA	US	

US-CL-CURRENT: 514/12; 435/198, 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 20020151024 A1

L5: Entry 4 of 22

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020151024

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020151024 A1

TITLE: DNA encoding mammalian phosphodiesterases

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Beavo, Joseph A.	Seattle	WA	US	
Bentley, J. Kelley	Seattle	WA	US	
Charbonneau, Harry	West Lafayette	IN	US	
Sonnenburg, William K.	Mountlake Terrace	WA	US	

US-CL-CURRENT: [435/196](#); [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 6642040 B2

L5: Entry 5 of 22

File: USPT

Nov 4, 2003

US-PAT-NO: 6642040

DOCUMENT-IDENTIFIER: US 6642040 B2

TITLE: Human cGMP-stimulated cyclic nucleotide phosphodiesterase

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 6100037 A

L5: Entry 6 of 22

File: USPT

Aug 8, 2000

US-PAT-NO: 6100037

DOCUMENT-IDENTIFIER: US 6100037 A

**** See image for Certificate of Correction ****

TITLE: Human cyclic nucleotide PDEs

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 7. Document ID: US 6100025 A

L5: Entry 7 of 22

File: USPT

Aug 8, 2000

US-PAT-NO: 6100025

DOCUMENT-IDENTIFIER: US 6100025 A

**** See image for Certificate of Correction ****

TITLE: Cloning by complementation and related processes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 8. Document ID: US 6069240 A

L5: Entry 8 of 22

File: USPT

May 30, 2000

US-PAT-NO: 6069240

DOCUMENT-IDENTIFIER: US 6069240 A

**** See image for Certificate of Correction ****

TITLE: Cloning by complementation and related processes

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 9. Document ID: US 6037119 A

L5: Entry 9 of 22

File: USPT

Mar 14, 2000

US-PAT-NO: 6037119

DOCUMENT-IDENTIFIER: US 6037119 A

**** See image for Certificate of Correction ****

TITLE: Cyclic GMP-binding, cyclic GMP-specific phosphodiesterase materials and methods

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 10. Document ID: US 6015677 A

L5: Entry 10 of 22

File: USPT

Jan 18, 2000

US-PAT-NO: 6015677

DOCUMENT-IDENTIFIER: US 6015677 A

**** See image for Certificate of Correction ****

TITLE: Assay methods using DNA encoding mammalian phosphodiesterases

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Terms	Documents
L4 and adrenal\$	22

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Search Results - Record(s) 11 through 20 of 22 returned.

☐ 11. Document ID: US 5977305 A

L5: Entry 11 of 22

File: USPT

Nov 2, 1999

US-PAT-NO: 5977305

DOCUMENT-IDENTIFIER: US 5977305 A

**** See image for Certificate of Correction ****

TITLE: Cloning by complementation and related processes

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw. De
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☐ 12. Document ID: US 5955583 A

L5: Entry 12 of 22

File: USPT

Sep 21, 1999

US-PAT-NO: 5955583

DOCUMENT-IDENTIFIER: US 5955583 A

TITLE: Antibodies to cGMP-binding, cGMP-specific phosphodiesterase

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw. De
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☐ 13. Document ID: US 5800987 A

L5: Entry 13 of 22

File: USPT

Sep 1, 1998

US-PAT-NO: 5800987

DOCUMENT-IDENTIFIER: US 5800987 A

**** See image for Certificate of Correction ****

TITLE: Assay methods using DNA encoding mammalian phosphodiesterases

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw. De
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☐ 14. Document ID: US 5789553 A

L5: Entry 14 of 22

File: USPT

Aug 4, 1998

US-PAT-NO: 5789553

DOCUMENT-IDENTIFIER: US 5789553 A

TITLE: Antibodies specifically immunoreactive with human brain
Ca.sup.2+ /calmodulin cyclic nucleotide phosphodiesterase

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 15. Document ID: US 5776752 A

L5: Entry 15 of 22

File: USPT

Jul 7, 1998

US-PAT-NO: 5776752

DOCUMENT-IDENTIFIER: US 5776752 A

TITLE: Isolated and purified calcium/calmodulin stimulated cyclic nucleotide
phosphodiesterases

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 16. Document ID: US 5702936 A

L5: Entry 16 of 22

File: USPT

Dec 30, 1997

US-PAT-NO: 5702936

DOCUMENT-IDENTIFIER: US 5702936 A

**** See image for Certificate of Correction ****

TITLE: Cyclic GMP-binding, cyclic GMP-specific phosphodiesterase materials and
methods

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 17. Document ID: US 5652131 A

L5: Entry 17 of 22

File: USPT

Jul 29, 1997

US-PAT-NO: 5652131

DOCUMENT-IDENTIFIER: US 5652131 A

**** See image for Certificate of Correction ****

TITLE: Cyclic GMP-binding, cyclic GMP-specific phosphodiesterase materials and
methods

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 18. Document ID: US 5602019 A

L5: Entry 18 of 22

File: USPT

Feb 11, 1997

US-PAT-NO: 5602019

DOCUMENT-IDENTIFIER: US 5602019 A

**** See image for Certificate of Correction ****

TITLE: DNA encoding mammalian phosphodiesterases

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 19. Document ID: US 5580771 A

L5: Entry 19 of 22

File: USPT

Dec 3, 1996

US-PAT-NO: 5580771

DOCUMENT-IDENTIFIER: US 5580771 A

**** See image for Certificate of Correction ****

TITLE: DNA encoding mammalian phosphodiesterases

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 20. Document ID: US 5552267 A

L5: Entry 20 of 22

File: USPT

Sep 3, 1996

US-PAT-NO: 5552267

DOCUMENT-IDENTIFIER: US 5552267 A

TITLE: Solution for prolonged organ preservation

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Terms

Documents

L4 and adrenal\$

22

Display Format:[Change Format](#)[Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 21 through 22 of 22 returned.

☐ 21. Document ID: US 5527896 A

L5: Entry 21 of 22

File: USPT

Jun 18, 1996

US-PAT-NO: 5527896

DOCUMENT-IDENTIFIER: US 5527896 A

**** See image for Certificate of Correction ****

TITLE: Cloning by complementation and related processes

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 22. Document ID: US 5389527 A

L5: Entry 22 of 22

File: USPT

Feb 14, 1995

US-PAT-NO: 5389527

DOCUMENT-IDENTIFIER: US 5389527 A

**** See image for Certificate of Correction ****

TITLE: DNA encoding mammalian phosphodiesterases

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L4 and adrenal\$	22

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

Hit List

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Search Results - Record(s) 1 through 10 of 17 returned.

☐ 1. Document ID: US 20050032833 A1

L7: Entry 1 of 17

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050032833

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050032833 A1

TITLE: Fluorinated heterocyclic compounds and methods of synthesis

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kwiatkowski, Stefan	Lexington	KY	US	
Golinski, Miroslaw	Lexington	KY	US	

US-CL-CURRENT: 514/312; 546/155

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw Ds
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☐ 2. Document ID: US 20040258687 A1

L7: Entry 2 of 17

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040258687

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040258687 A1

TITLE: Use of GCC ligands

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Waldman, Scott A.	Ardmore	PA	US	
Pitari, Giovanni Mario	Philadelphia	PA	US	
Park, Jason	Philadelphia	PA	US	
Schulz, Stephanie	West Chester	PA	US	
Wolfe, Henry	Glenmoore	PA	US	
Lubbe, Wilhelm	Philadelphia	PA	US	

US-CL-CURRENT: 424/143.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 3. Document ID: US 20030166679 A1

L7: Entry 3 of 17

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166679

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030166679 A1

TITLE: Fluorinated heterocyclic compounds and methods of synthesis

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kwiatkowski, Stefan	Lexington	KY	US	
Golinski, Miroslaw	Lexington	KY	US	

US-CL-CURRENT: 514/312; 546/155

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 4. Document ID: US 6864070 B2

L7: Entry 4 of 17

File: USPT

Mar 8, 2005

US-PAT-NO: 6864070

DOCUMENT-IDENTIFIER: US 6864070 B2

TITLE: Phosphodiesterase 10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 5. Document ID: US 6852747 B2

L7: Entry 5 of 17

File: USPT

Feb 8, 2005

US-PAT-NO: 6852747

DOCUMENT-IDENTIFIER: US 6852747 B2

TITLE: Resorcinol derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
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☐ 6. Document ID: US 6767914 B2

L7: Entry 6 of 17

File: USPT

Jul 27, 2004

US-PAT-NO: 6767914

DOCUMENT-IDENTIFIER: US 6767914 B2

TITLE: Fluorinated heterocyclic compounds and methods of synthesis

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 7. Document ID: US 6734003 B2

L7: Entry 7 of 17

File: USPT

May 11, 2004

US-PAT-NO: 6734003

DOCUMENT-IDENTIFIER: US 6734003 B2

TITLE: Phosphodiesterase 10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 8. Document ID: US 6566087 B1

L7: Entry 8 of 17

File: USPT

May 20, 2003

US-PAT-NO: 6566087

DOCUMENT-IDENTIFIER: US 6566087 B1

**** See image for Certificate of Correction ****

TITLE: Phosphodiesterase 8A

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 9. Document ID: US 6416991 B1

L7: Entry 9 of 17

File: USPT

Jul 9, 2002

US-PAT-NO: 6416991

DOCUMENT-IDENTIFIER: US 6416991 B1

TITLE: Human cyclic nucleotide PDES

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 10. Document ID: US 6350603 B1

L7: Entry 10 of 17

File: USPT

Feb 26, 2002

US-PAT-NO: 6350603

DOCUMENT-IDENTIFIER: US 6350603 B1

**** See image for Certificate of Correction ****

TITLE: Phosphodiesterase 10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L6 not L5	17

Display Format:

[Previous Page](#) [Next Page](#) [Go to Doc#](#)

Hit List

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 11 through 17 of 17 returned.

☐ 11. Document ID: US 6291199 B1

L7: Entry 11 of 17

File: USPT

Sep 18, 2001

US-PAT-NO: 6291199

DOCUMENT-IDENTIFIER: US 6291199 B1

**** See image for Certificate of Correction ****

TITLE: Human phosphodiesterase type IVC, and its production and use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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☐ 12. Document ID: US 6204251 B1

L7: Entry 12 of 17

File: USPT

Mar 20, 2001

US-PAT-NO: 6204251

DOCUMENT-IDENTIFIER: US 6204251 B1

TITLE: Ocular gene therapy

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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☐ 13. Document ID: US 6133007 A

L7: Entry 13 of 17

File: USPT

Oct 17, 2000

US-PAT-NO: 6133007

DOCUMENT-IDENTIFIER: US 6133007 A

**** See image for Certificate of Correction ****

TITLE: Phosphodiesterase 8A

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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☐ 14. Document ID: US 5932465 A

L7: Entry 14 of 17

File: USPT

Aug 3, 1999

US-PAT-NO: 5932465

DOCUMENT-IDENTIFIER: US 5932465 A

**** See image for Certificate of Correction ****

TITLE: Phosphodiesterase 8A

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Da
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☐ 15. Document ID: US 5851784 A

L7: Entry 15 of 17

File: USPT

Dec 22, 1998

US-PAT-NO: 5851784

DOCUMENT-IDENTIFIER: US 5851784 A

TITLE: Human phosphodiesterase type IVC, and its production and use

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Da
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☐ 16. Document ID: US 5827702 A

L7: Entry 16 of 17

File: USPT

Oct 27, 1998

US-PAT-NO: 5827702

DOCUMENT-IDENTIFIER: US 5827702 A

TITLE: Ocular gene therapy

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Da
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☐ 17. Document ID: US 5498521 A

L7: Entry 17 of 17

File: USPT

Mar 12, 1996

US-PAT-NO: 5498521

DOCUMENT-IDENTIFIER: US 5498521 A

**** See image for Certificate of Correction ****

TITLE: Diagnosis of hereditary retinal degenerative diseases

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Da
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Terms	Documents
L6 not L5	17

Display Format: